

614 Magnolia Avenue Ocean Springs, MS 39564 Phone 228.818.9626 Fax 228.818.9631

September 9, 2010

Mr. Steve Tzhone (6SF-RA)
Superfund Remedial Project Manager
U.S. Environmental Protection Agency
Region 6
1445 Ross Avenue
Dallas, TX 75202-2773

Re: San Jacinto River Waste Pits Superfund Site – Site Warning and Protective Measures Project Number: 090557-01.01

Dear Steve:

As requested in previous correspondence, the following provides a suggested design for buoy and signage placement around the San Jacinto River Waste Pits Superfund Site, shown in Figure 1. On the western side of the impoundments the signs will be placed at 100-foot intervals. On the eastern side, signs will be placed at 200-foot intervals along the shoreline, and there will be an additional warning system placed in the water with the buoy system described below. The signs on the eastern and western impoundments will alternate between the "No Trespassing" (Figure 2) and "Danger" (Figure 3) signs.

The proposed design layout for the buoy system is shown in Figure 1. The four (4) regulatory buoys are to be printed with the Restricted Area symbol (Figure 4) and the text "No Entry." Figure 5 displays an example specifications sheet for the regulatory buoys. Additionally, there are to be twenty-five (25) 16-inch diameter float ball buoys placed between the regulatory buoys, which are intended to further discourage trespassing by watercraft. Figure 6 displays an example specifications sheet for the float ball buoys. The entire system will be connected by chain to no less than eleven (11) anchors with a nominal weight of 300 pounds each (Figure 7). Also provided are the mooring suggestions for this

type of buoy system (Figure 8). This design considers the effects of the 100-year event (i.e., water velocity and depth).

Anchor QEA coordinated with the U.S. Coast Guard (USCG), Port of Houston Authority (PHA) and Texas Parks and Wildlife. We have submitted a draft permit application to the USCG, 8th District Private Aids to Navigation Group, Mr. Tim Boriskie, for his review and comment. We contacted Mr. David Casebeer with the Port of Houston Authority Channel Development group; they do not regulate private aids to navigation on the San Jacinto River. Mr. Casebeer requested a copy of the buoy application for his records after the permit was issued by the USCG. Finally, we contacted Lt. Johnny Longoria in the Houston District Enforcement Office of Texas Parks and Wildlife; they follow or enforce the aids permitted by the USCG. He requested a copy of the permitted buoy alignment to add to their patrol enforcement list.

Sincerely,

David C. Keith, PH.D., R.G., C. HG.

David C. Kind

Anchor QEA, LLC

Cc: Andrew Shafer Phil Slowiak

Attachments





Texas Penal Code - Section 30.05. Criminal Trespass

NO TRESPASSING VIOLATORS WILL BE PROSECUTED

AUTHORIZED PERSONNEL ONLY

Codigo Penal De Texas - Seccion 30.05. Traspaso Criminal

PROHIBIDO TRASPASAR VIOLADORES SERAN PROSCESADOS

SÓLO PERSONAL AUTORIZADO

Texas luật hình sự - Phần 30,05. Hình sự xâm nhập

KHÔNG XÂM PHạM NGƯỜI VI PHạM Sẽ Bị TRUY Tố

ỦY QUYỀN NHÂN ONLY

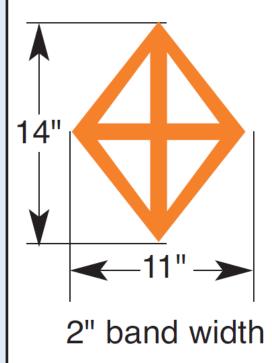




Figure 3

Danger Sign
Site Warning and Protective Measures
San Jacinto River Waste Pits Superfund Site

RESTRICTED AREA SYMBOL



STANDARD MESSAGES

SWIM AREA
KEEP OUT
NO BOATS
BOATS KEEP OUT
CLOSED AREA
NO BOATING
DANGER DAM

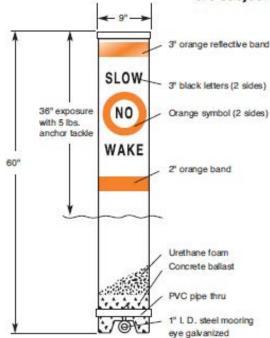
Source: www.RolyanBuoys.com



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Regulatory Buoys • X-Tra Heavy Duty

Super-tough regulatory buoy. Designed for problem areas where buoys are subject to abuse and vandalism.



When ordering, specify symbols and messages desired (see bottom of page 1).

Submerged buoyancy 84 lbs. Net weight 49 lbs. Shipping weight 56 lbs.

Refer to installation suggestions on page 21. NOTE: Special procedures must be followed when reconditioning HDPE type buoys. See warranty information on back cover. Polyethylene type - 9" dia.

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Features

Model B961R

- 9" dia. white super-tough HDPE shell.
 Ultraviolet inhibited.
- · Shatter-proof will not crack, chip, peel or rust.
- · Completely urethane foam filled. Virtually unsinkable.
- 3"-wide reflective band at top provides excellent night visibility.
- · Self-righting without tackle.
- · Recessed cap allows buoy to stand upright.
- Heavy steel galvanized anchoring eye cast in an internal concrete ballast.
- Inland waterway marking symbols with standard messages included.
- · Includes choice of standard symbols and messages.

Available Options

- Pickup eye built into top.
- Stainless steel anchoring eye for salt water applications.
- Agency or name identification.
- · Special non-standard messages.
- Solar light (see page 11).
- · Cone cap top.
- Side mooring eyes for swim areas, float lines

EDUCATIONAL BUOYS • MINIATURE REPLICAS Non-functional-for educational use only. Model B2510ES 2½" dia. x 10" identical replicas of Rolyan* regulatory NI buoys showing standard inland waterway symbols and messages. Set of seven buoys includes: · Swim Area/No Boats · Red Channel Marker · Green Channel Marker Danger/Hazard · Slow No Wake/ · Centerline Marker No Wake Idle Speed Red & White · Marina Entrance Net wt. - 1.75#

Rolyan® Buoys. To Order—Call toll-free in the U.S.: 888-269-2869 • 262-387-8728 • Fax: 866-790-3298 www.RolyanBuoys.com





Barrier Floats • Durable Polyethylene

Super-tough polyethylene hull.

Barrier floats are attached in series to restrict boating traffic or swimmers from specific danger areas such as around dams, spillways and swim areas.

Features

- Shatter-proof-will not crack, chip, peel or rust.
- · Unsinkable-completely urethane foam filled.
- · One-piece construction.

Available Options

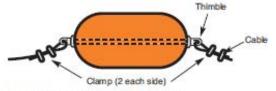
- · Available in solid international orange or all white as noted.
- Reflective bands and/or symbols available on Models B1830, B2436, and B1130.
- Yellow available on special order.
- Type B floats available with larger I.D. pipe thru center.

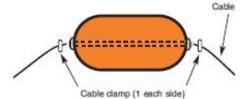
Type A

Steel rod thru float Swivel eye nuts both ends

Type B

Steel or plastic pipe thru float





Note - "W" specifies white "O" orange

Model Number	Barrier Float Styles	Dia. and Length	Туре	Description-Standard colors are international orange and white, plain solid color (specify when ordering)	Sub. Buoyancy	Net Wt.
B1130AW B1130AO B1130BW	+ +	12' x 13'	A B	7/16" dia. galvanized steel rod with 3" dia. attachment hoop one side only." 1/2" sch. 40 PVC pipe thru float.	33 lbs.	4 lbs
B1130BO		200 200		I MANUAL SERVICE MANUAL SERVICE SERVIC	-	
B618BO		6" x 18"	Α	1/2" sch. 40 PVC pipe thru		3 lbs
B1318AW B1318AO		13" Dia.	A	1/2' dia. steel rod thru float. Galvanized eye nut swivels on both ends.	-	10 lb
B1318BW B1318BO		18" Length	В	1/2' sch. 40 PVC pipe thru float. Anchored to prevent movement.	55 lbs.	10 10
Orange Only B1400AO	(14' Sphere	A	7/16" dia. galvanized steel rod with 3" dia. attachment hoop one side only."	50 lbs.	6 lbs
B1400BO			В	1/2' sch. 40 PVC pipe thru float.		
Orange Only B1600AO	•	16' Sphere	A	1/2" dia. steel rod thru float. Galvanized eye nut swivels on both ends.	70 lbs.	8 libs
B1600BO			В	1/2' sch. 40 PVC pipe thru float.		2000
B1800AW B1800AO	(А	1/2" dia. steel rod thru float. Galvanized eye nut swivels on both ends.		
B1800BW B1800BO		18' Sphere	В	1/2" sch. 40 PVC pipe thru float.	-	14 lb



No hardware opposite side. Excellent for swim areas. (B1130A & B1400A) Optional SS hardware.

Rolyan® Buoys. To Order—Call toll-free in the U.S.: 888-269-2869 • 262-387-8728 • Fax: 866-790-3298 www.RolyanBuoys.com



Chain • Cable • Hardware • Anchors



PERMAFLEX® CABLE

Lightweight High strength Safe to handle Tough, durable, bright yellow, waterproof plastic covering is highly resistant to alkalis and salt



Covering O.D.	Part No.	Cable Dia	Construction	Weight Lb./Ft.	Breaking Strength Lbs.	Standard Reel Size 3	Reel Wt. Lbs.
%"	B1934	36"	7 x 7	.028	920	1000	28
1/m	B1936	3/4"	7 x 7	.065	3700	5001	37
%"	B1931	Nº	7×7	.12	6100	500'	60
1/4"	B1933	36"	7 x 19	.28	14400	500'	180

Permaflex Cable – Galvanized steel wire rope coated & Impregnated with yellow polypropylene plastic.

CHAIN



	Size	Part No.	Weight Lb./Ft.	Working Load Limit Lbs.	Standard Drum Size®
Proof Coll Heavy Duty	14"	B1828	.42	1300	4001
Steel Chain	36"	B1829	1.36	2650	2001
Hot Dipped Galv.	3/5"	B18210	2.3	4500	1001

NOTES: $\mathbin{\oplus}$ Chain may also be purchased by the foot. Subject to cut charge.

GALVANIZED HARDWARE

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CABLE THIMBLES

Standard Bectro Galvanized

Heavy Duty Hot Dipped Galvanized

Size	Part No.	Weight Lb/Ft.
%#"	B2311	.03
36"	B2312	.04
50"	B2313	.05
35**	B2316	.15
X ^a	B2324	.08
%2"	B2321	.11
У"	B2323	.47



CABLE CLAMPS

Standard Electro Galvanized

Heavy Duty Hot Dipped Galvanized

		28 192	
3/4"	B1831	2	
Х"	B1832	.3	
%"	B1833	A	
У"	B1835	.5	
3/4"	B2331	.11	
X"	B2332	.16	
%"	B2333	.28	
36"	B2335	.82	

CONNECTING LINKS

Bectro Galvanized



QUICK LINKS Bectro

Galvanized

-	-	0
P	3	A
	-)	а
	H	5

ANCHOR SHACKLES

Hot Dipped Galvanized



SWIVELS Hot Dipped Galvanized

X*	B1891	.10
%"	B1892	.25
У."	B1893	.54

34"	B1801	.10
3/2"	B1803	.19
36**	B1804	.38

50	B1900	.25
36"	B1901	.30
36"	B1902	.75

34"	B1921	.21
30"	B1922	.61
У"	B1923	.93

ANCHORS

ANCHORS CONCRETE	Avg. Wt. Lbs.	Under- water Wt. Lbs.	
B1842 3" Round Steel Eye Hot Dipped Galvanized	90	54	
B21620 3" Round Steel Eye Hot Dipped Galvanized	200	164	
B2152 3" Round Steel Eye Hot Dipped Galvanized	300	180	

ANCHOR KITS

24% long	B2161
(160° wide) 100°	Tough, high-density polyethylene anchor form. Cast up to 300 lb. concrete anchors.
16" Dia.	B2163 Plastic anchor form for 90 lb. concrete anchors.
~ ****	B2162
Δ	1/2" Steel anchor eye and steel wire mesh.

Stainless steel hardware available. Call for pricing.

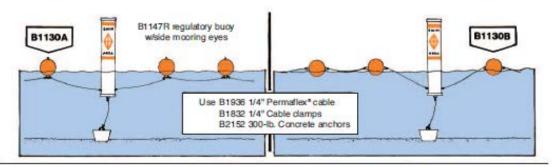


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Application and Mooring Suggestions (continued)

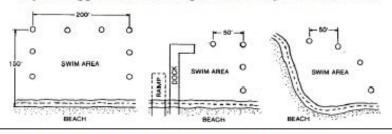


Suggestions For Using B1130 Floats with B1147R Buoys in Swim Areas
Also see chain, cable, hardware and anchor information, page 17.

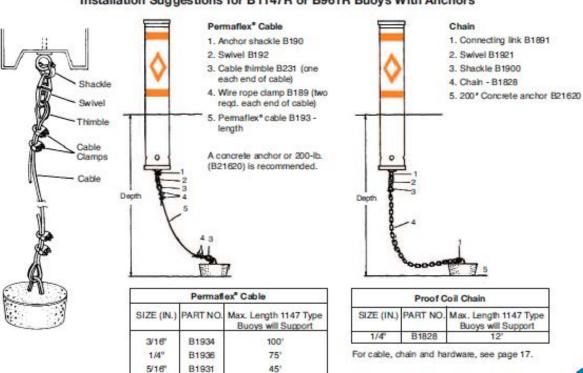


Note: The design and selection of a mooring system should be determined by a qualified professional engineer who is familiar with the specific application and local conditions. The illustrations shown are provided for informational purposes and are not intended to be suggested designs. The company assumes no responsibility for any mooring system based upon these illustrations.

Layout Suggestions For Using B1147R Buoys In Swim Areas



Installation Suggestions for B1147R or B961R Buoys With Anchors



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